### TENT COOPERATION TREATY



#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PE-39 35	FOR FURTHER see Notification of (Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/BR 00/00105	20/09/2000	20/09/1999
Applicant ·	L	
EMPRESA BRASILEIRA DE COMI	PRESSORES S.A.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists  L	of a total of3 sheets. a copy of each_prior_art_document_cited_in_this	report,
Basis of the report		
With regard to the language, the language in which it was filed, unloading to the language in which it was filed, unloading to the language.	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	he international application furnished to this
b. With regard to any nucleotide and was carried out on the basis of the	d/or amino acid sequence disclosed in the in	ternational application, the international search
1 —	nal application in written form.	
filed together with the inter	rnational application in computer readable forn	n.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	sequently furnished written sequence listing des filed has been furnished.	oes not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the <b>title</b> ,		
X the text is approved as sul	bmitted by the applicant.	
the text has been establish	hed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as sul the text has been establish within one month from the	bmitted by the applicant. hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	ty as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	4
as suggested by the applic	cant.	None of the figures.
because the applicant faile	• •	
because this figure better	characterizes the invention.	

ernational application No.

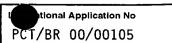
#### INTERNATIONAL SEARCH REPORT

PCT/BR 00/00105

#### B x III TEXT OF THE ABSTRACT (Continuation of item 5 f th first sheet)

The abstract is changed as follows:

A method for controlling and protecting electric motors (10) provided with a rotor, specially permanent magnet motors electronically actuated by a control system (2) comprising a three-phase inverting bridge (5), characterized by being comprised of the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the step of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position. The present invention is also expressed as a control system (2) for an electric motor (10) provided with a rotor, specially a permanent magnet motor, comprising a three-phase inverting bridge (5) and characterized by being additionally comprised of a microcontroller capable of analyzing the positions of the rotor as a function of the time, associated with a counter capable of carrying out the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the stage of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position, as well-as an electric motor... (1) comprising the control system (2).



A. CLASSI	FICATION OF SUBJECT MATTER				
IPC 7	H02P6/12				
	o International Patent Classification (IPC) or to both national classific	cation and IPC			
	SEARCHED commentation searched (classification system followed by classification system followed by classifi	ion eymhole)			
IPC 7	H02P	ion symbols)			
			- Inches d		
Documentat	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	earched		
Electronic d	ata base consulted during the international search (name of data ba	ase and, where practical, search terms used	i)		
FPO-In	ternal, WPI Data, PAJ				
[ [ ] ]	ternar, wit bata, Tho				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.		
Α	US_4_532_461_A (CROOK_JAMES_C)		1-6		
	30 July 1985 (1985-07-30)		: <b>- : -</b> - : - : - :		
	column 1, line 29 - line 34; cla	ims 1,2			
	column 5, line 35 - line 37	•			
A	PATENT ABSTRACTS OF JAPAN		1–6		
	vol. 1998, no. 02,				
	30 January 1998 (1998-01-30)	AL LTD			
	-& JP 09 261991 A (FUJITSU GENER	AL LIU),			
	3 October 1997 (1997-10-03) abstract				
Furtt	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
° Special ca	tegories of cited documents:	"T" later document published after the inte	rnational filing date		
'A' docume	ent defining the general state of the art which is not	or priority date and not in conflict with cited to understand the principle or the	the application but		
consid	lered to be of particular relevance	invention	, , , ,		
"E" earlier o	document but published on or after the international late	"X" document of particular relevance; the cannot be considered novel or cannot	laimed invention be considered to		
	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive step when the do	cument is taken alone		
citation	n or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an in-	ventive step when the		
O docume other r	ent referring to an oral disclosure, use, exhibition or neans	document is combined with one or mo ments, such combination being obvious	ore other such docu-		
'P' docume	ent published prior to the international filing date but	in the art.	•		
	nan the priority date claimed	'&' document member of the same patent	<del>-</del>		
Date of the	actual completion of the international search	Date of mailing of the international sea	arcn report		
1	1 January 2001	22/01/2001			
1	1 Callual y 2001	22/01/2001			
Name and n	nailing address of the ISA	Authorized officer			
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk				
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C			

ion on patent family members

tional Application No PCT/BR 00/00105

46		Inf	tion on patent family men	nbers	PCT/BR	00/00105	
Patent of cited in se	locument arch report		Publication date	Patent family member(s)		Publication date	Publication date
US 453	2461	Α	30-07-1985	NONE			
JP 092	61991	Α	03-10-1997	NONE			
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Inter nal Application No PCT/BR 00/00105

A CLASSI	FICATION OF SUBJECT MATTER		
IPC 7	H02P6/12		
<b>[</b>			,
Ì	and the second s	ention and IDC	
	o International Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED ocumentation searched (classification system followed by classification	ion symbols)	
IPC 7			
			•
D- aum anio	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	earched
Documenta	lion searched onler man named documentation to the salest man		
Electronic d	ata base consulted during the international search (name of data ba	ise and, where practical, search terms used	)
EPO-In	ternal, WPI Data, PAJ		
[	•		
C 000111141	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
Calegory	Committee of the commit		
	US 4 532 461 A (CROOK JAMES C)		1-6
Α	30 July 1985 (1985-07-30)		10
	column 1. line 29 - line 34; clai	ims 1,2	
	column 5, line 35 - line 37	ŕ	
		ļ	1.6
Α	PATENT ABSTRACTS OF JAPAN		1-6
	vol. 1998, no. 02, 30 January 1998 (1998-01-30)		
	-& JP 09 261991 A (FUJITSU GENERA	AL LTD).	
	3 October 1997 (1997-10-03)	=,	
	abstract		
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		•	
ļ	·		
Funt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
° Special ca	tegories of cited documents:	*T* tater document published after the inte	
	ent defining the general state of the art which is not lered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the	
'E' earlier o	document but published on or after the international	invention "X" document of particular relevance; the c	laimed invention
filing d	tate ent which may throw doubts on priority claim(s) or	cannot be considered novel or cannot involve an inventive step when the do	be considered to
which	is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particular relevance; the c	laimed invention
"O" docume	ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an involve and occurrent is combined with one or mo	re other such docu-
*P* docume	means ent published prior to the international filing date but	ments, such combination being obvious in the art.	
later th	nan the priority date claimed	"&" document member of the same patent	
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report
1	1 January 2001	22/01/2001	
Name and r	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C	



nal Application No

	information on pat	ent family members		1	00/00105		Ï
Patent document cited in search report	Public da	Publication Patent famil date member(s)		/	Publication date	ition e	
US 4532461	A 30-07	′ <del>-</del> 1985	NONE		1		
JP 09261991	A 03-10	)–1997	NONE				
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### PATENT COOPERATION TREATY

# **PCT**

REC'D 0 1 FEB 2002

# INTERNATIONAL PRELIMINARY EXAMINATION REPORTS

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		Car NatiGastian of	Transmittal of International
PE-3935	FOR FURTHER ACTION		Transmittal of International nation Report (Form PCT/IPEA/416)
International application No.	International filing date (day/r	nonth/year) Pri	ority date (day month year)
PCT/BR 00/00105	20/09/2000		
International Patent Classification (IPC) or	national classification and IPC		
	H02P6/12		
Applicant EMPRESA BRASILEIRA DE COM	MPRESSORES S.A. ET A	AL	
This international preliminary exam     Authority and is transmitted to the			al Preliminary Examining
2. This REPORT consists of a total	of 2 sheets, including	this cover sheet.	
been amended and are the ba	ed by ANNEXES, i.e., sheets of sis for this report and/or sheets of the Administrative Instruc	containing rectificatio	ims and/or drawings which have ns made before this Authority ).
These annexes consists of a total o	f sheets.		
3. This report contains indications rel	ating to the following items:		
I $\overline{\mathbf{X}}$ Basis of the report			
II Priority			
III X Non-establishment of o	pinion with regard to novelty, in	ventive step and indu	strial applicability
IV Lack of unity of inventi			
V X Reasoned statement und	der Article 35(2) with regard to r ns supporting such statement	novelty, inventive step	o or industrial applicability;
VI Certain documents cited	1		
VII Certain defects in the in	ternational application		
VIII Certain observations on	the international application		
	•		
Date of submission of the demand		of completion of this	roport
Date of such installed of the demand	Date	or completion or this	repore
16/04/2001		25/01/2002	ORNSCHES MIZENZ
Name and mailing address of the IPEA/		orized officer	(6)
European Patent Office, Gitschi	iner Str. 103	MAES K G	CES BREVETS
D-10969 Berlin - Germany Tel.: (+49-30) 25901-0			
Form PCT/IPEA/409 (cover sheet) (July 199		+49-89) 2399 2828	The state of the s

- I. Basis of report
- The basis of international preliminary examination report is the application as originally filed.
- III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- 2. The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination (Article 34 (4) (a) (i) (ii) PCT; see also international search report) in respect of:
- 2.1 Applications having an unnecessary plurality of independent claims (generally not more-than 1 independent claim in the same category is necessary; Article 6 PCT);
- 2.2 unsearched subject-matter (Article 17 (2) (a), Rule 66.1 (e) PCT).
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 3. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out (Article 35 (2) and (3) (b) and Rule 70.7 and 70.8 (ii) PCT):

In light of the documents cited in the international search report, it is considered that the invention as claimed in the independent claims meets the criteria mentioned in Article 33 (1) PCT, i.e. it appears to be novel, to involve an inventive step and to be industrially applicable.

The demand must be filed directly the competent International Preliminary Examining A prity or, if two or more Authorities are competent. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ EPO

# **PCT**

**CHAPTER II** 

#### **DEMAND**

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For	International Preliminar	y Examining Authority	use only
Identification of IPEA		Date of receipt of D	EMAND
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	. APPLICATION	Applicant's or agent's file reference PE-3935
International application No. PCT/BR00/00105	International filing date 20 September (20.09.2000	r 2000	(Earliest) Priority date (day/month/year) 20 September 1999 (20.09.1999)
Title of invention "A method for control for controlling elect			ctric motors, a system
Box No. II APPLICANT(S)			
Name and address: (Family name followed by g The address must include po EMPRESA BRASILEIRA DE EMBRACO Rua Rui Barbosa, 1020 89210-901 - Joinville Brazil	COMPRESSORE		Telephone No. (47) 441 -2740  Facsimile No. (47) 441-2548  Teleprinter No.  Applicant's registration No. with the Office
State (that is, country) of nationality:	BR	State (that is, countr BR	y) of residence:
Name and address: (Family name followed by g DAINEZ, PAULO SERGIO Rua Rui Barbosa, 1431 Bloco I Joinville, SC Brazil		ull official designation. The	address must include postal code and name of country.)
State (that is, country) of nationality:	BR	State (that is, countr BR	y) of residence:
Name and address: (Family name followed by g VON DOKONAL, LUIZ Rua Visconde de Mauá, Joinville, SC Brazil	•	ull official designation. The	address must include postal code and name of country.)
State (that is, country) of nationality:	BR	State (that is, country)	of residence:
Further applicants are indicated on	a continuation sheet.		

Sheet No. 0.2

International application No. PCT/BR00/00105

Continuation of Box No. II APPLICANT(S)	
If none of the following sub-boxes is used, this sheet should not be include	ed in the demand.
Name and address: (Family name followed by given name: for a legal entity. It SCHWARZ, MARCOS GUILHERME Rua General Osório, 257 Joinville, SC Brazil	full official designation. The address must include postal code and name of country.)
State (that is, country) of nationality:  BR	State (that is, country) of residence: BR
Name and address: (Family name followed by given name; for a legal entity, f	full official designation. The address must include postal code and name of country.)
	× × × × × × × × × × × × × × × × × × ×
State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, fu	ull official designation. The address must include postal code and name of country.)
State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, fu	ll official designation. The address must include postal code and name of country.)
State (that is, country) of nationality:	State (that is. country) of residence:
Further applicants are indicated on another continuation shee	et.

Sheet		$\sim$
C1 +	N 1 -	

International application No. PCT/BR00/00105

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	DRRESPONDENCE
The following person is X agent common representative	
and x has been appointed earlier and represents the applicant(s) also for international p	reliminary examination.
is hereby appointed and any earlier appointment of (an) agent(s)/common represe	entative is hereby revoked.
is hereby appointed, specifically for the procedure before the International Prelin the agent(s)/common representative appointed earlier.	ninary Examining Authority, in addition to
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No. (5521) 553.1811
DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marques de Olinda, 70	Facsimile No. 553.1812 553.1813
Botafogo 22251-040 - Rio de Janeiro - RJ	Teleprinter No.
Brazil	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where no agent or common space above is used instead to indicate a special address to which correspondence	representative is/has been appointed and the e should be sent.
Box-No. IV BASIS-FOR-INTERNATIONAL PRELIMINARY-EXAMINATION-	
Statement concerning amendments:*	
1. The applicant wishes the international preliminary examination to start on the basis of	f:
the international application as originally filed	
the description x as originally filed	
as amended under Article 34	
the claims x as originally filed	*
as amended under Article 19 (together with any accompany)	ng statement)
as amended under Article 34	
the drawings x as originally filed	
as amended under Article 34	
2. The applicant wishes any amendment to the claims under Article 19 to be considered.	ered as reversed.
3. The applicant wishes the start of the international preliminary examination to be promptive from the priority date unless the International Preliminary Examining Authority under Article 19 or a notice from the applicant that he does not wish to make such box may be marked only where the time limit under Article 19 has not yet expired.	receives a copy of any amendments made h amendments (Rule 69.1(d)). (This check-
* Where no check-box is marked, international preliminary examination will start on as originally filed or, where a copy of amendments to the claims under Article 19 and/or under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	amendments of the international application
Language for the purposes of international preliminary examination: Engli	sh
which is the language in which the international application was filed.	
which is the language of a translation furnished for the purposes of internati	onal search.
which is the language of publication of the international application.	
which is the language of the translation (to be) furnished for the purposes of	international preliminary examination.
Box No. V ELECTION OF STATES	
The applicant hereby elects all eligible States (that is, all States which have been designate the PCT)	ated and which are bound by Chapter II of
excluding the following States which the applicant wishes not to elect:	

Sheet No. 04

International application No. PCT/BR00/00105

Box l	No. VI CHECK LIST				•	
Th Bo	e demand is accompanied by the following eler x No. IV, for the purposes of international pre	nents, in the lan liminary exami	guage re nation:	ferred to in	For Internation Examining Autreceived	nal Preliminary hority use only not received
1.	translation of international application	:		sheets		
2.	amendments under Article 34	:		sheets		
3.	copy (or, where required, translation) of amendments under Article 19	:		sheets		
4.	copy (or. where required, translation) of statement under Article 19	:		sheets		
5.	letter	:		sheets		
6.	other (specify)	:		sheets		
The	lemand is also accompanied by the item(s) ma	rked below:				
1.	X fee calculation sheet		5. 🔲	statement expla	ining lack of signatu	re
2.	original separate power of attorney		6.	sequence listing	g in computer readabl	e form
3.	original general power of attorney		7. 🔲	other (specify):		
4.	copy of general power of attorney; reference number, if any:					
Box	No. VII SIGNATURE OF APPLICANT, A	GENT OR C	OMMO	N REPRESENT	TATIVE	
Next I	o each signature, indicate the name of the person signin	g and the capacity	in which ti	ne person signs (if su	ch capacity is not obvious	from reading the demand).
Θ	$\bigcap$ $\alpha$					
		\				
]	Dannemann, Siemsen, Big.	ler—&-7	panei	na Moreir	·a.	
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		nal Preliminary	Examin	ing Authority use	e only	
1.	Date of actual receipt of DEMAND:					
2.	Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):					
3.	The date of receipt of the demand is A from the priority date and item 4 or 5,			9 months	The applicant informed acco	has been ordingly.
4.	The date of receipt of the demand is Rule 80.5.	WITHIN the p	eriod of	19 months from	the priority date as	extended by virtue of
5.	Although the date of receipt of the deris EXCUSED pursuant to Rule 82.	mand is after th	e expirat	ion of 19 months	s from the priority da	te, the delay in arrival
		For Internation	al Burea	use only = -		
Den	and received from IPEA on:					V

# **PCT**

#### FEE CALCULATION SHEET

#### Annex to the Demand

International application No. PCT/BR00/00105  Applicant's or agent's  Date stamp of the IPEA
Applicant's or agent's Date stamp of the IPEA
file reference PE-3935
Applicant EMPRESA BRASILEIRA DE COMPRESSORES S.A EMBRACO et al
CALCULATION OF PRESCRIBED FEES
1. Preliminary examination fee
2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)
MODE OF PAYMENT
authorization to charge deposit cash account with the IPEA (see below) cheque revenue stamps
postal money order coupons    X bank draft
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all IPEAs)  IPEA/
Authorization to charge the total fees indicated above.  Deposit Account No.:
(This check-box may be marked only if the conditions for deposit accounts of the IPEA so permit) Authorization to charge any deficiency or credit any overpayment in Name:
the total fees indicated above.  Signature:

AMIEMAIGI, SIEMSEH FOLERAL MORESER

#### From the INTERNATIONAL SEARCHING AUTHORITY

PCT S NOTIFICATION OF TRANSMITTAL OF DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA THE INTERNATIONAL SEARCH REPORT

Rua Marqués de Olinda, 70 Botafogo 22251-040 - Rio de Janeiro - RJ

(PCT Rule 44.1)

OR THE DECLARATION

BRAZIL	
	Date of mailing (day/month/year) 22/01/2001
Applicant's or agent's file reference PE-39 35	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/BR 00/00105	International filing date (day/month/year) 20/09/2000
Applicant	
EMPRESA BRASILEIRA DE COMPRESSORES S.A	-

E.	'IF IX E	SA DI	ASILEINA D	CONTRESSORES S.A.						
1.	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19:									
		The appl	The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):							
		When?	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.							
		Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35						
		For more	e detailed instru	uctions, see the notes on the accompanying sheet.						
2.				otified that no International Search Report will be established and that the declaration under ect is transmitted herewith.						
3.		With reg	ard to the prote	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
				with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of both the protest and the decision thereon to the designated Offices.						
		no e	decision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is made.						
4.	Furth	ner action	n(s): The appli	cant is reminded of the following:						
	If the	né applica prity claim	nt wishes to avo , must reach the	ne priority date, the international application will be published by the International Bureau. id or postpone publication, a notice of withdrawal of the international application, or of the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the reparations for international publication.						
	Withi	n 19 mon	the from the orio	ority date, a demand for international preliminary examination must be filed if the applicant						

wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority	
Furonean Patent Office P.R. 5818 Patentlaan 2	

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

priority date or could not be elected because they are not bound by Chapter II.

Authorized officer

Cornelia Schulze

Henry

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International-Preliminary-Examining-Authority.—The description-and-drawings-may-only-be-amended-under-Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been fis filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (c ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

  "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PE-39 35	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/BR 00/00105	20/09/2000	20/09/1999		
Applicant  EMPRESA BRASILEIRA DE COMI	PRESSORES S.A.			
according to Article 18. A copy is being tra  This International Search Report consists	of a total of3 sheets.			
	a.copy_of_each_prior_art_document_cited_in_this_	report		
language in which it was filed, unle	nternational search was carried out on the bas ess otherwise indicated under this item. as carried out on the basis of a translation of th			
was carried out on the basis of the contained in the internation filed together with the inter furnished subsequently to furnished subsequently to the statement that the subsinternational application as	sequence listing: nal application in written form. national application in computer readable form this Authority in written form. this Authority in computer readble form. sequently furnished written sequence listing do if filed has been furnished.			
2. Certain claims were foun	d unsearchable (See Box I).			
3. Unity of invention is lack	ing (see Box II).			
4. With regard to the <b>title,</b> X the text is approved as sub the text has been establish	emitted by the applicant.  ed by this Authority to read as follows:			
5. With regard to the <b>abstract</b> ,  the text is approved as sub  the text has been establish	ed, according to Rule 38.2(b), by this Authority	as it appears in Box III. The applicant may,		
within one month from the 6. The figure of the <b>drawings</b> to be public X as suggested by the application	date of mailing of this international search reportshed with the abstract is Figure No.	rt, submit comments to this Authority.  4  None of the figures.		
because the applicant failed because this figure better c	•			

formation on patent family members

International Application No PCT/BR 00/00105

			<del></del>	PCT/BR 0			
Pa cited	itent document I in search report		Publication date	Patent family member(s)		Publication date	
US	4532461	Α	30-07-1985	NONE			
JP	09261991	Α	03-10-1997	NONE			_
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International application No.

#### INTERNATIONAL SEARCH REPORT

PCT/BR 00/00105

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The abstract is changed as follows:

A method for controlling and protecting electric motors (10) provided with a rotor, specially permanent magnet motors electronically actuated by a control system (2) comprising a three-phase inverting bridge (5), characterized by being comprised of the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the step of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position. The present invention is also expressed as a control system (2) for an electric motor (10) provided with a rotor, specially a permanent magnet motor, comprising a three-phase inverting bridge (5) and characterized by being additionally comprised of a microcontroller capable of analyzing the positions of the rotor as a function of the time, associated with a counter capable of carrying out the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the stage of counting a second period of time that follows said first period of time, during which said\_rotor\_should\_pass\_through\_said\_next\_position,\_as\_well\_as\_an\_electric\_motor\_ (1) comprising the control system (2).

International Application No PCT/BR 00/00105

A. CLASS IPC 7	SIFICATION OF SUBJECT MATTER H02P6/12		
According t	to International Patent Classification (IPC) or to both national class	ification and IPC	
	SEARCHED		
Minimum de IPC 7	ocumentation searched (classification system followed by classific H02P	cation symbols)	
	ation searched other than minimum documentation to the extent tha		
	data base consulted during the international search (name of data ternal, WPI Data, PAJ	base and, where practical, search terms used	· -
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
_A	US 4 532 461 A (CROOK JAMES C)		1-6
	30 July 1985 (1985-07-30) column 1, line 29 - line 34; cla column 5, line 35 - line 37	aims 1,2	
Α	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 261991 A (FUJITSU GENER	1-6	
	3 October 1997 (1997-10-03) abstract 		
	·  -		
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
° Special cat	tegories of cited documents:	"T" later document published after the inter	national filing date
consider d	ent defining the general state of the art which is not ered to be of particular relevance locument but published on or after the international	or priority date and not in conflict with t cited to understand the principle or the invention  *X* document of particular relevance; the classes	ory underlying the
which is	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another	cannot be considered novel or cannot involve an inventive step when the doc  "Y" document of particular relevance; the cla	be considered to curnent is taken alone almed invention
"O" document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an introduce of the combination being obvious cannot be considered to involve an introduce of the combination being obvious cannot be considered to involve an introduce of the combination being obvious cannot be considered to involve an introduce of the combination being obvious cannot be considered to involve an introduce of the combination being obvious cannot be considered to involve an introduce of the combination of the combina			re other such docu-
	nt published prior to the international filing date but an the priority date claimed	'&' document member of the same patent for	amily
	actual completion of the international search	Date of mailing of the international sear	rch report
11	l January 2001	22/01/2001	· · · · · · · · · · · · · · · · · · ·
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C	

#### PATENT COOPERATION TREA

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marqués de Olinda, 70 Botafogo 22251-040 - Rio de Janeiro - RJ BRESIL

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

VORAB

IMPORTANT NOTIFICATION

**C** CF

BY FAX Date of mailing (day/month/year)

30/01/2002

Applicant's or agent's file reference

PCT/BR 00/00105

PE-3935

International filing date (day/month/year)

Priority date (day/month/year)

International application No.

20/09/2000

Applicant

EMPRESA-BRASILEIRA-DE-COMPRESSORES-S.A.-ET-AL

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the 2. elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but 3. not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

European-Patent Office, Gitschiner Str. 103 - D-10969 Berlin - Germany Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840

TSOGKA P

Tel. (+49-89) 2399 2828

Form PCT/IPEA/416 (July 1992) P20473



# PATENT COOPERATION TREA

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T		
PE-3935	FOR FURTHER ACTION		of Transmittal of International mination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/r	nonth/year) P	riority date (day/month/year)
PCT/BR 00/00105	20/09/2000		
International Patent Classification (IPC) or	national classification and IPC		
	H02P6/12		
Applicant			
EMPRESA BRASILEIRA DE CO	MPRESSORES S.A. ET A	AL .	
been amended and are the ba	e applicant according to Article 30	of the description, containing rectificat	laims and/or drawings which have ons made before this Authority
These annexes consists of a total o	of sheets.		
3. This report contains indications rel			, , , , , ,
I X Basis of the report			
II Priority	•		
	pinion with regard to novelty, inv	ventive step and ind	ustrial applicability
IV Lack of unity of inventi	-		activity approximation of the control of the contro
-	der Article 35(2) with regard to n	ovelty inventive ste	en or industrial applicability:
citations and explanation	ns supporting such statement	overty, mvenave sa	p or measural approaching,
VI Certain documents cited	1		
VII Certain defects in the in	ternational application		
VIII Certain observations on	the international application		
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Date of submission of the demand	. Date o	of completion of thi	s report
16/04/2001		25/01/2002	ORINGCHES PATENT
Name and mailing address of the IPEA/	Author	ized officer	47
European Patent Office, Gitschi D-10969 Berlin - Germany	ner Str. 103 THOM	AES_K.G	OES BREVERS
Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840	Tel. (→	-49-89) 2399 2828	

Form PCT/IPEA/409 (cover sheet) (July 1998)

- I. Basis of report
- 1. The basis of international preliminary examination report is the application as originally filed.
- III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- 2. The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination (Article 34 (4) (a) (i) (ii) PCT; see also international search report) in respect of:
- 2.1 Applications having an unnecessary plurality of independent claims (generally not more than 1 independent claim in the same category is necessary; Article 6 PCT);
- 2.2 unsearched subject-matter (Article 17 (2) (a), Rule 66.1 (e) PCT).
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 3. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out (Article 35 (2) and (3) (b) and Rule 70.7 and 70.8 (ii) PCT):

In light of the documents cited in the international search report, it is considered that the invention as claimed in the independent claims meets the criteria mentioned in Article 33 (1) PCT, i.e. it appears to be novel, to involve an inventive step and to be industrially applicable.

### **PCT**

#### **REQUEST**

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

# Pat / BReei 00 0 105

International Application No.

20 SET 2000 211-9- 00

International Filing Date

INPUBRAZIL-PCT INTERNATIONAL APPLICATION

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference

	(if desired) (12 characters i	naximum) PE-3935						
Box No. I TITLE OF INVENTION  "A method for controlling and protecting electric motors, a system for controlling electric motors and an electric motor system"								
Box No. II APPLICANT								
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	nirv i ne country of the	This person is also inventor.						
EMPRESA BRASILEIRA DE COMPRESSORI EMBRACO	ES S.A	Telephone No. (47) 441 - 2740						
Rua Rui Barbosa, 1020 89210-901- Joinville, SC		Facsimile No. (47) 441 - 2548  Teleprinter No.						
Brazil		releprinter (vo.						
State (that is, country) of nationality:  BR	State (that is, country) o	f residence:						
This person is applicant all designated for the purposes of:		the States indicated in the Supplemental Box						
Box No. III FURTHER APPLICANT(S) AND/OR (FURTI	HER) INVENTOR(S)							
Name and address: (Family name followed by given name; for a ladesignation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country, of residence is indicated below.)  DAINEZ, PAULO SERGIO  Rua Rui Barbosa, 1431 - apt? 302  Bloco I  Joinville, SC  Brazil		This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality:  BR	State (that is, country) of BR	residence:						
This person is applicant all designated for the purposes of:		e United States  America only  the States indicated in the Supplemental Box						
X Further applicants and/or (further) inventors are indicated or	n a continuation sheet.							
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR C	ORRESPONDENCE						
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities	n behalf x as:	gent common representative						
Name and address: (Family name followed by given name; for a designation. The address must include postal co	legal entity, full official de and name of country.)	Telephone No. (5521) 553.1811						
DANNEMANN, SIEMSEN, BIGLER & IPAN Rua Marquês de Olinda, 70 Botafogo	EMA MOREIRA	Facsimile No. (5521) 553.1812 553.1813						
22251-040 - Rio de Janeiro - RJ Brazil	<u> </u>	Teleprinter No.						
Address for correspondence: Mark this check-box where n space above is used instead to indicate a special address to w	o agent or common repres	entative is/has been appointed and the						

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) U 1 U :							
If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	legal entity, full official nitry. The country of the of fresidence if no State  This person is:  applicant only						
VON DOKONAL, LUIZ Rua Visconde de Mauá, 241	applicant and inventor						
Joinville, SC Brazil	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality: BR	State (that is, country) of residence: BR						
This person is applicant for the purposes of:  all designated the United States all designated the United States	States except						
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SCHWARZ, MARCOS GUILHERME Rua General Osório, 257	x applicant and inventor						
Joinville, SC Brazil	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality: BR	State (that is, country) of residence: BR						
This person is applicant for the purposes of:  all designated the United States all designated the United States	States except the United States the States indicated in the Supplemental Box						
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Further applicants and/or (further) inventors are indicated or	another continuation sheet.						

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7	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):											
F	Regional Patent											
	Ā	<ul> <li>ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, L SZ Swaziland, TZ United Republic of Tanzania, UG U of the Harare Protocol and of the PCT</li> </ul>	S Le gand	sotho. la, ZV	, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone V Zimbabwe, and any other State which is a Contracting State							
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		P European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT										
	] OA	OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)										
N	ation	al Patent (if other kind of protection or treatment desired, spe	cify	on doi	tted line):							
	] AE	United Arab Emirates	٦	1 LC	Saint Lucia							
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		Kyrgyzstan		zw	Zimbabwe							
		Democratic People's Republic of Korea	Ch	eck-bo	ox reserved for designating States which have become							
		Republic of Korea	-	ty to t	he PCT after issuance of this sheet:							
	ΚZ	Kazakhstan										
des from des	Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)											
	ine ext	mation of that time time. (Confirmation (including jees) must	rea	en ine	receiving Office within the 13-month time limit.)							

Sheet No. 04

Box No. VI PRIORITY C	CLAIM	Furt Rena	oritacle impare indicate	od in the Supplemental I
Filing date	Number		Where earlier applica	d in the Supplemental I
of earlier application (day/month/year)	of earlier application	national application:	regional application:	
(day/montroyear)		country	regional Office	international applicat
item (1) 20 September 1999 (20.09.99)	PI 9904253-3	BR		receiving office
item (2)				
item (3)				
The receiving Office is req of the earlier application(s purposes of the present into * Where the earlier application is Convention for the Protection of In	) (only ly the earlier appli ernational application is the	cation was filed with the defection was filed with the defection of the control o	Office which for the ed above as item(s):	1
			ed (Rule 4.10(b)(ii)). See S	ne country party to the Po Supplemental Box.
	NAL SEARCHING AUT			
Choice of International Search (if two or more International Sea competent to carry out the interna the Authority chosen; the two-letter	rching Authorities are sear tional search, indicate	quest to use results of earl ch has been carried out by or r c (day/month/year)	equesieu jrom ine iniernai.	ional Searching Authority,
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Box No. VIII CHECK LIST;	LANGUAGE OF EU U	NC.		
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5. International Searching Authori (if two or more are competent):	ty ISA/	6. Transmittal or until search fe	f search copy delayed	
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# FEE CALCULATION SHEET Annex to the Request

For receiv	ing	Office	e use	only	y <b>–</b>	
PGT/BR 00 nternational application No.	/	0	0	1	0	5

Date stamp of the receiving Office	Annex to the Request		
EMPRESA BRASILEIRA DE COMPRESSORES S.A. — EMBRACO  CALCULATION OF PRESCRIBED FEES  1. TRANSMITTAL FEE  2. SEARCH FEE DEM 462.07 x 0.811392   S   International search to be carried out by EPO  (If two or more international Suprehing Authorities are competent in relation to the international application induces the name of the Authority which is chosen to corry out the international aparts)  1. INTERNATIONAL FEE  Basic Fee  The international application contains 15   Sheets.  first 30 sheets CHF 650 x 1.04042   676,27   bl  remaining sheets   additional amount  Add amounts entered at b1 and b2 and enter total at B   676 ,27   B  Designation Fee The international application contains   7   designations   7   x CIF 140 x 1.04042   1.695,61   D  number of designation fees   amount of designation fee   payable (maximum 8)   Add amounts entered at B and D and enter total at I   1.695,88   I   (Applicants from certain Sets of the sum of the amount entered at B and D)  4. FEE FOR PRIORITY DOCUMENT (if applicable)   75,00   P    5. TOTAL FEES PAYABLE   Add amounts entered at T, S, I and P, and enter total in the TOTAL box   TOTAL    The designation fees are not paid at this time.  MODE OF PAYMENT   authorization to charge deposit account (see below)   bank draft   cash   c		Date stamp of the receiving Office	
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The international application contains 15 sheets.  first 30 sheets CHF 650 x 1.04042 676,27 bl  remaining sheets additional amount  Add amounts entered at b1 and b2 and enter total at B 676,27 B  Designation Fees The international application contains 7 designations.  7 xCHF 140 x 1.04042 1.695,61 D  number of designation fees amount of designation fee payable (maximum 8)  Add amounts entered at B and D and enter total at 1 1.695,88 I  Applicants from certain States are entitled to a reduction of 73% of the international fee. Where the applicant is for all applicants or all applicants or a so entitled, the total to be entered at 18 23% of the sum entered at B and D.)  4. FEE FOR PRIORITY DOCUMENT (if applicable) 75,00 P  5. TOTAL FEES PAYABLE Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL  The designation fees are not paid at this time.  MODE OF PAYMENT  authorization to charge deposit account (see below) bank draft coupons cheque cash other (specify):  postal money order revenue stamps  DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment may not be available at all receiving Office so permit) is hereby authorized to charge the total fees indicated above to my deposit account.  (this check-box may be marked only if the conditions for deposit account.  (this check-box may be marked only if the conditions for deposit account.  (this check-box may be marked only if the conditions for deposit account.  (this check-box may be marked only if the conditions for deposit account.  (this check-box may be marked only if the conditions for deposit account.  (this check-box may be marked only if the conditions for deposit account.  is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account.	1. TRANSMITTAL FEE  2. SEARCH FEE DEM 462.07 x 0.811392  International search to be carried out by EPO  (If two or more International Searching Authorities are competent in relation application, indicate the name of the Authority which is chosen to carry out the international search in the Authority which is chosen to carry out the international search in the Authority which is chosen to carry out the international search in the Authority which is chosen to carry out the international search in the s	s	
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# FEE CALCULATION SHEET Ann x to the Request

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Applicant's or agent's PE-3935 file reference Date stamp of the receiving Office Applicant EMPRESA BRASILEIRA DE COMPRESSORES S.A. - EMBRACO CALCULATION OF PRESCRIBED FEES I. TRANSMITTAL FEE . . . . . . . . 236,00 2. SEARCH FEE DEM 462.07 x 0.811392 S EPO International search to be carried out by (If two or more International Searching Authorities are competent in relation to the international application, indicate the name of the Authority which is chosen to carry out the international search.) INTERNATIONAL FEE **Basic Fee** The international application contains 15 -- sheets first 30 sheets CHF 650 x 1.04042 remaining sheets additional amount Add amounts entered at b1 and b2 and enter total at B . . . Designation Fees The international application contains \_\_\_\_\_ designations. xCHF 140 x 1.04042 1.695,61 number of designation fees amount of designation fee payable (maximum 8) 1.695,88 Add amounts entered at B and D and enter total at I . . . . . . . . (Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.) FEE FOR PRIORITY DOCUMENT (if applicable) . 75,00 2381,79 Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL The designation fees are not paid at this time. MODE OF PAYMENT authorization to charge bank draft coupons deposit account (see below) cheque cash other (specify): postal money order revenue stamps DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment may not be available at all receiving Offices) The RO/ is hereby authorized to charge the total fees indicated above to my deposit account. (this check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account. is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account. Deposit Account No. Date (day/month/year) Signature

#### HATENT COOPERATION TREATY

### From the INTERNATIONAL BUREAU **PCT** Commissioner **US** Department of Commerce NOTIFICATION OF ELECTION United States Patent and Trademark (PCT Rule 61.2) Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 29 May 2001 (29.05.01) International application No. Applicant's or agent's file reference PCT/BR00/00105 PE-3935 International filing date (day/month/year) Priority date (day/month/year) 20 September 2000 (20.09.00) 20 September 1999 (20.09.99) **Applicant** DAINEZ, Paulo, Sergio et al The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on: 16 April 2001 (16.04.01) in a notice effecting later election filed with the International Bureau on: 2. The election was was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

#### I **FENT COOPERATION TREA** ."

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF RECEIPT OF **RECORD COPY** 

(PCT Rule 24.2(a))

DANNEMANN, SIEMSEN, BIGLER & **IPANEMA MOREIRA** Rua Marquês de Olinda, 70 Botafogo CEP-22251-040 Rio de Janeiro, RJ BRÉSIL

Date of mailing (day/month/year) 08 November 2000 (08.11.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PE-3935	International application No. PCT/BR00/00105

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

EMPRESA BRASILEIRA DE COMPRESSORES S.A. - EMBRACO (for all designated States except US)

DAINEZ, Paulo, Sergio et al (for US)

International filing date

20 September 2000 (20.09.00)

Priority date(s) claimed

20 September 1999 (20.09.99)

Date of receipt of the record copy by the International Bureau

25 October 2000 (25.10.00)

List of designated Offices

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE National :CN, JP, KR, SG, TR, US

#### ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

time limits for entry into the national phase

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confirmation of precautionary designations

requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer:

Eugénia Santos

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38